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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	FOR FURTHER ACTION	See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)		
./.	- FOR TOTAL LITTLE TO			
International application No. International filing date (content of the property of the proper		hth/year) Priority date (day/month/year) 24.09.2003		
International Patent Classification (IPC) or b	oth national classification and IPC			
A61F2/06				
Applicant LOTFY, Wael Mohamed Nabil				
This international preliminary example 2. Authority and is transmitted to the second control of the s	amination report has been prep e applicant according to Article	ared by this International Preliminary Examining 36.		
2. This REPORT consists of a total	of 6 sheets, including this cov	ver sheet.		
This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).				
These annexes consist of a total of 1 sheets.				
3. This report contains indications	relating to the following items:			
l ⊠ Basis of the opinion				
_		annlicability		
III ⊠ Non-establishment	of opinion with regard to novel	ty, inventive step and industrial applicability		
1				
IV Lack of unity of invention V Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
VI Certain documents	cited			
VII Certain defects in the international application		•		
VIII 🔲 Certain observation	ns on the international applicat	ion		
	l D	ate of completion of this report		
Date of submission of the demand				
16.04.2005		9.12.2005		
Name and mailing address of the interpreliminary examining authority:	national	authorized Officer		
European Patent Office	1	Hedels, B		
D-80298 Munich Tel. +49 89 2399 - 0 Tx: Fax: +49 89 2399 - 446	523656 epmu d	Felephone No. +49 89 2399-2329		

INTERNATIONAL PRELIMINARY **EXAMINATION REPORT**

International application No.

PCT/EG2003/000009

1.	Basis	of the	report

1. With regard to the elements of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	Docc	ription, Pages				
	1, 2	ription, i age	as original	lly filed		
	Claims, Numbers		ac amend	as amended (together with any statement) under Art. 19 PCT		
	7-22			telefax on 27.08.2005		
	1					
	Drav	vings, Sheets				
	1/1		as origina			
2.	With	regard to the languag	e, all the eleme	ents marked above were available or furnished to this Authority in the ation was filed, unless otherwise indicated under this item.		
	Tho	oo olomonts were avail	able or furnishe	ed to this Authority in the following language: , which is:		
	П	the language of a trans	slation furnished	d for the purposes of the international search (under Rule 23.1(b)).		
		e .1.1! =	ation of the inte	ornational application (under Rule 46.3(b)).		
		the language of a tran	slation furnishe	d for the purposes of international preliminary examination (crises		
3	. Witl			lino acid sequence disclosed in the international application, the carried out on the basis of the sequence listing:		
		contained in the inter	national applica	tion in written form.		
		filed together with the	international a	pplication in computer readable form.		
		furnished subsequent	tly to this Autho	rity in written form.		
		furnished subsequen	tly to this Autho	rity in computer readable form.		
		The statement that the in the international ap	ne subsequently oplication as file	y furnished written sequence listing does not go beyond the disclosure ed has been furnished.		
		The statement that the listing has been furni	ne information r shed.	ecorded in computer readable form is identical to the written sequence		
	4. Th	e amendments have re	esulted in the ca	ancellation of:		
		the description,	pages:			
	⋈	the claims,	Nos.:	2-6		
		the drawings,	sheets:			

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5.

This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)).

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

see separate sheet

6. Additional observations, if necessary:

III. Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

••••				
1.	The obvi	he questions whether the claimed invention appears to be novel, to involve an inventive step (to be non- byious), or to be industrially applicable have not been examined in respect of:		
		the entire international application,		
	\boxtimes	claims Nos. 7-22		
		because:		
		the said international application, or the said claims Nos. relate to the following subject matter which does not require an international preliminary examination (specify):		
		the description, claims or drawings (indicate particular elements below) or said claims Nos. are so unclear that no meaningful opinion could be formed (specify):		
	Ø	the claims, or said claims Nos. 7-22 are so inadequately supported by the description that no meaningful opinion could be formed.		
		no international search report has been established for the said claims Nos.		
2.	or a	neaningful international preliminary examination cannot be carried out due to the failure of the nucleotide and/ amino acid sequence listing to comply with the standard provided for in Annex C of the Administrative tructions:		
		the written form has not been furnished or does not comply with the Standard.		
		the computer readable form has not been furnished or does not comply with the Standard.		
		and the second s		

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims
No: Claims
1

Inventive step (IS)

Yes: Claims
No: Claims
1

Industrial applicability (IA)

Yes: Claims
1

No: Claims

2. Citations and explanations

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see separate sheet

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Concerning section 1.5.

It was not disclosed in the application as originally filed whether the <u>inflatable</u> lining is detachable or not detachable to the stent. Hence, the incorporation of the feature into claim 1 that the inflatable lining is a "non detachable" lining offends against Art. 34(2)(b).

Concerning section III.

The features specified in claims 7-22 were not disclosed in the application as originally filed. There are no passages in the application as originally filed disclosing the features defined in claims 7-22. Hence, these claims offend against Art. 19(2) PCT.

Concerning section V.

The above objection in section 1.5 notwithstanding, the subject-matter of claim 1 lacks novelty in terms of Art. 33(2) PCT.

Claim 1 contains both alternatives which were originally claimed in two separate independent claims, namely the combination of a fixed lining and a stent was claimed in original claim 2 and the combination of an inflatable lining and a stent was claimed in original claim 1.

- As regards the combination of the inflatable lining and the stent, the lack of novelty objection is maintained.

WO-A-01/52769 (D1) (see Figs. 3 and 4 and the description, page 7, line 15 to page 8, line 10) discloses a stent 13 and an inflatable lining 24. Although the balloon is removed in D1 once the stent is positioned inside the blood vessel, the balloon could also be used to control the blood flow. Since the <u>structural</u> features claimed in claim 1 (namely the combination of an inflatable lining which can be of any shape and material and a stent which can also be of any shape and material) are disclosed in D1 and this combination could be used for controlling the blood flow inside the blood vessel, the subject-matter of claim 1 does not meet the requirement of novelty (Art. 33(2) PCT) (see the PCT-Guidelines for examination, Chapter 12.05).

EXAMINATION REPORT - SEPARATE SHEET

The feature that the inflatable lining is an integral part of the stent and is permanently associated with the stent was not originally disclosed (see item 1. above). It can therefore not be taken to distinguish the invention from the prior art.

As regards the combination of the fixed lining and the stent, the lack of novelty objection is also maintained.

US-A-6 293 968 (D2) discloses a stent 50 and a graft 132 fixed to the stent (see Fig. 5). By means of the lining 132 the flow through the stent is controlled in that less blood can flow through the stent than without the lining and the risk of aneurysm rupturing is reduced.

Although it is true that the lining in D2 is first of all for preventing blood flow from the lumen of the stent to the outside against the wall of the vessel (intraluminal to extraluminal), the lining in D2 has nevertheless a definite wall thickness which narrows the inside diameter of the stent and thus reduces the intraluminal blood flow through the stent.

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Claims:

1. The addition of fixed and/or inflatable and/or compressible and/or controllable non detachable lining to stents (medical or non medical) to control the flow of fluids or gases through:

a. This includes any form of stents including but not limited to metallic, plastic, totally inflatable stents or otherwise of medical or non medical

b. This includes all shapes of stent designs including but not limited to ring, tubular, cylindrical, cone, pentagonal ...etc.

c. This includes all shapes and materials of linings used for the same purpose including but not limited to Gortex, Teflon, PTFE.

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